

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631342

Luminaire Tested: GWS-SA1F-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5647.6 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

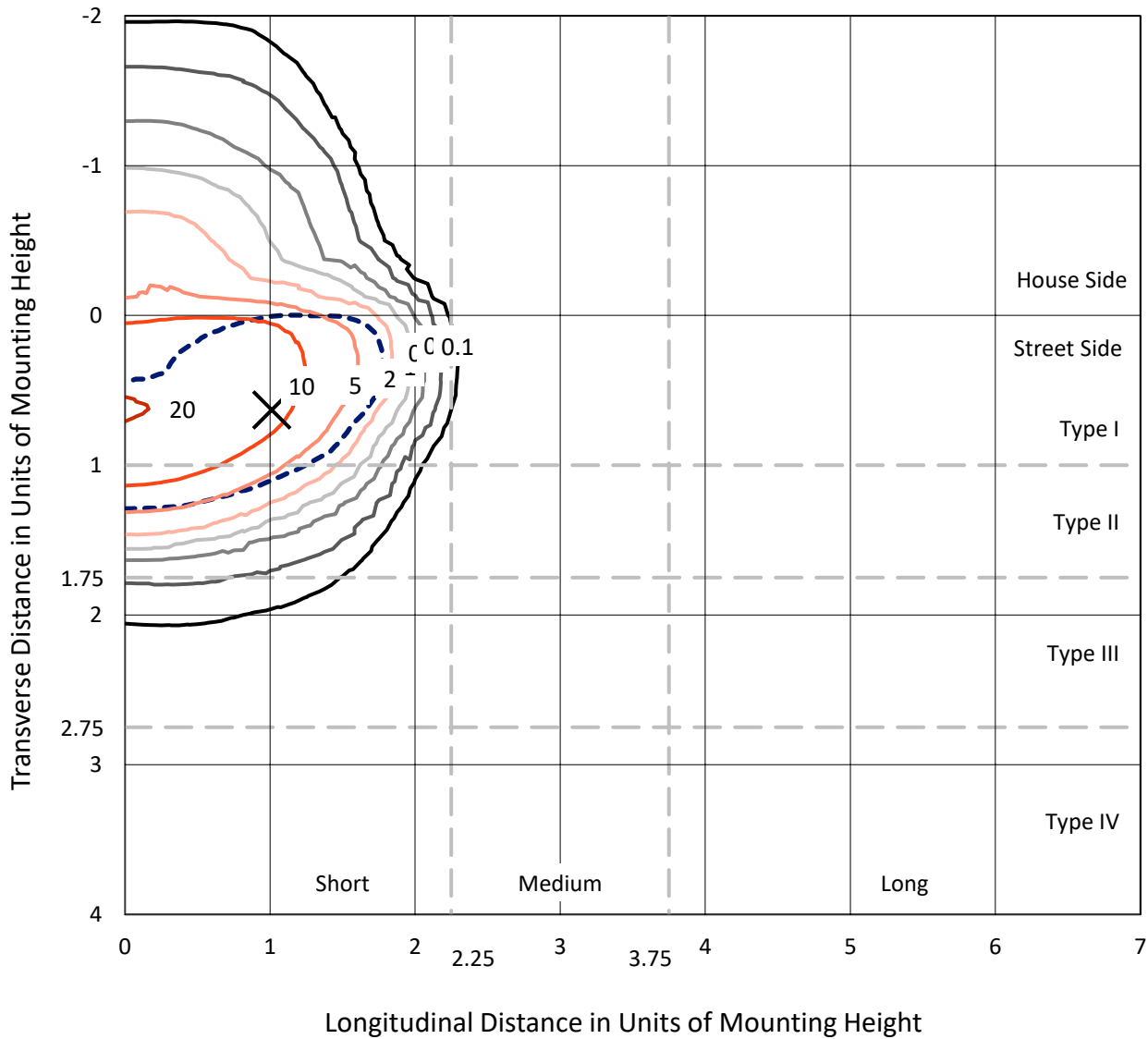
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

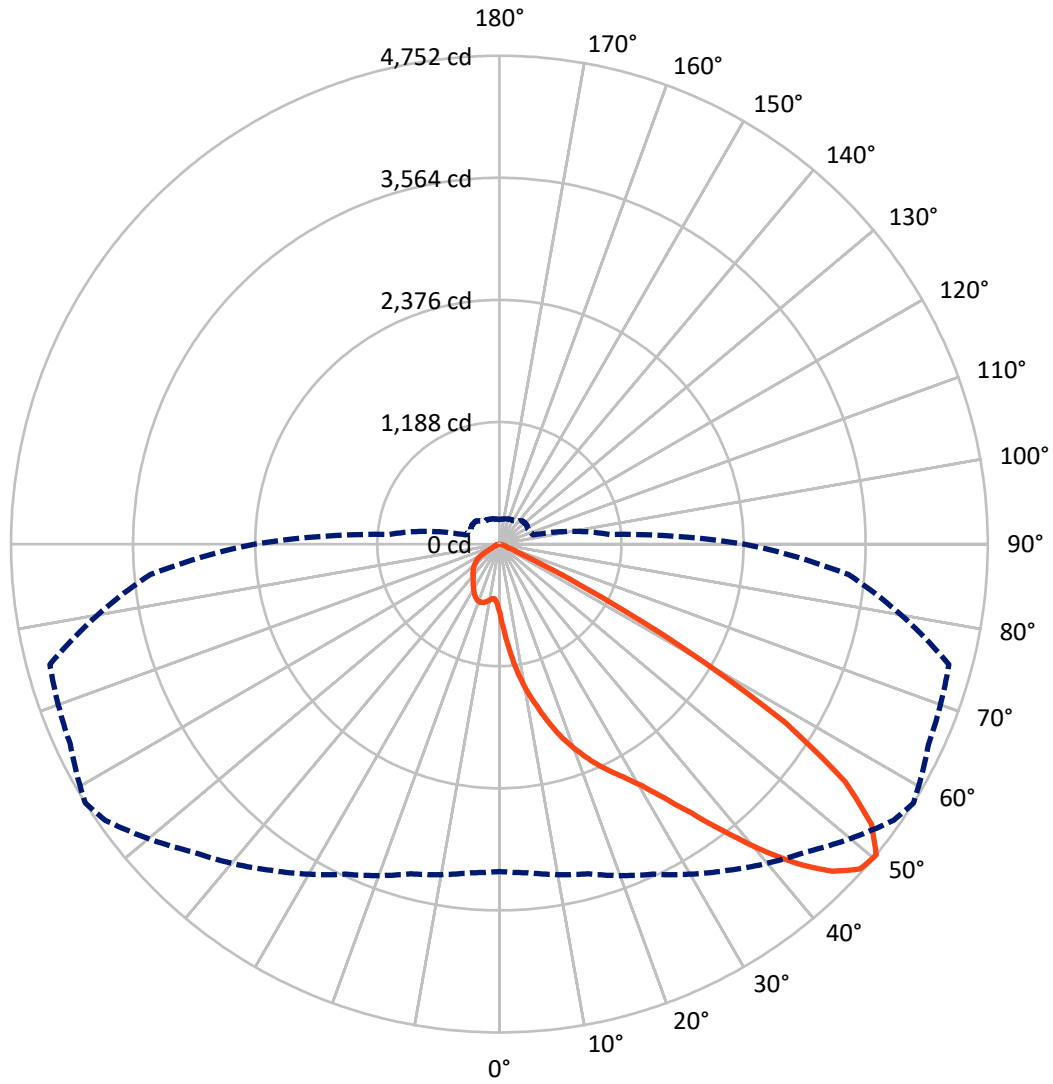
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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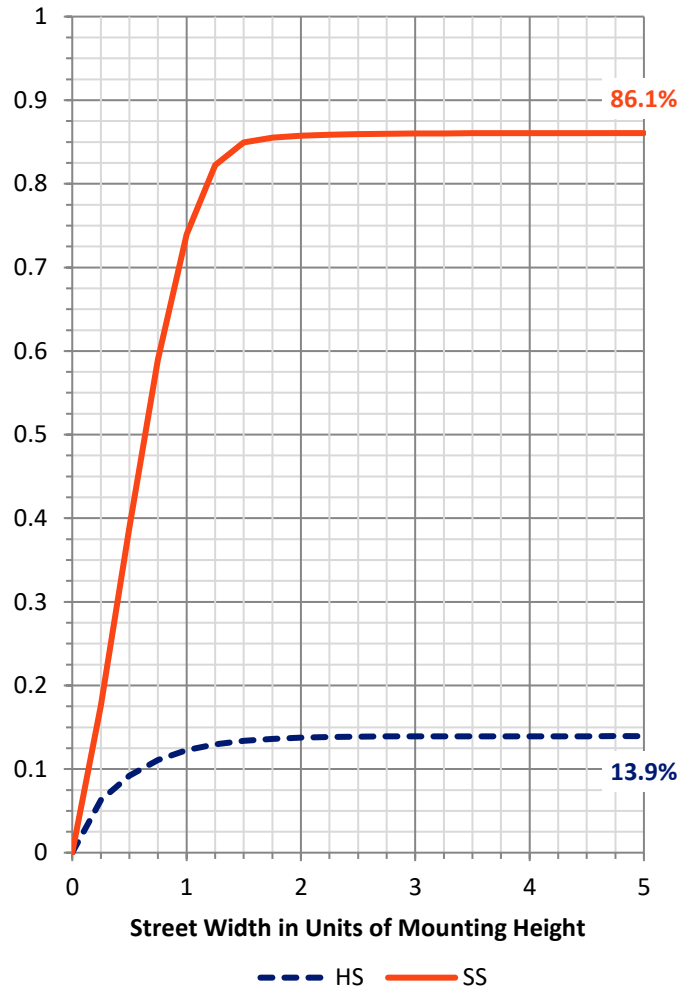
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	791.0	0.0	791.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4856.6	0.0	4856.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	5647.6	0.0	5647.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.5
10°-20°	330.8	5.9
20°-30°	669.5	11.9
30°-40°	1184.4	21.0
40°-50°	1726.5	30.6
50°-60°	1383.9	24.5
60°-70°	249.3	4.4
70°-80°	19.6	0.3
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5647.6	100.0
0°-180°	5647.6	100.0

Coefficient of Utilization



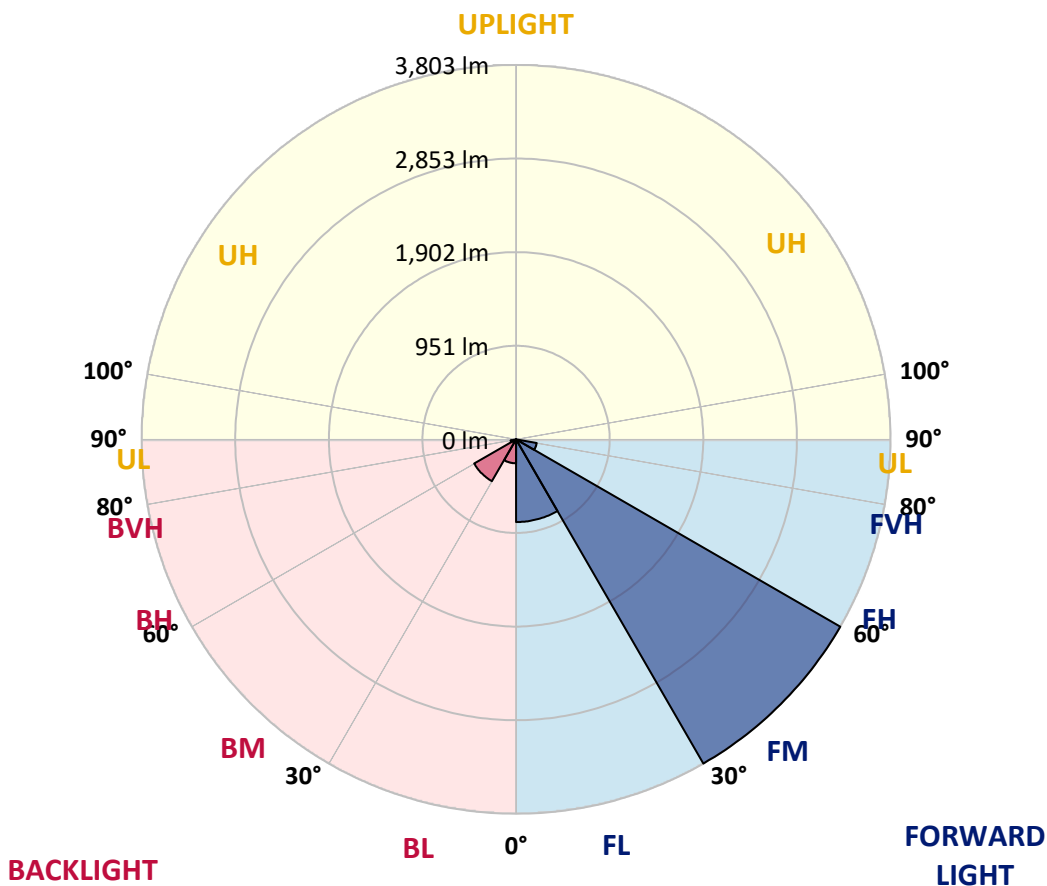
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.3	14.9			
FM (30°-60°)	3803.5	67.3			
FH (60°-80°)	212.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	243.5	4.3	B1/500		
BM (30°-60°)	491.3	8.7	B1/1000		
BH (60°-80°)	56.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6
2.5°	998.3	982.6	973.5	966.3	934.3	883.6	850.3	832.8	803.8	754.9	712.6
5°	1302.7	1291.2	1270.1	1255.6	1214.5	1142.6	1068.4	1038.8	972.9	862.4	763.4
7.5°	1504.4	1495.9	1488.1	1468.8	1430.1	1364.9	1282.8	1252.0	1150.5	993.5	831.0
10°	1659.6	1653.0	1643.9	1643.3	1613.1	1554.5	1474.2	1442.2	1332.3	1136.0	910.7
12.5°	1796.1	1790.7	1788.9	1805.8	1786.4	1743.0	1656.0	1616.1	1499.6	1281.6	998.9
15°	1889.7	1888.5	1896.4	1929.6	1940.4	1920.5	1847.4	1804.6	1670.5	1427.7	1096.1
17.5°	1932.6	1936.2	1951.3	2008.7	2057.0	2073.9	2017.7	1981.5	1840.2	1575.7	1200.0
20°	2005.7	2004.5	2013.5	2067.9	2127.1	2187.5	2170.5	2139.7	2011.7	1732.1	1315.4
22.5°	2211.6	2194.1	2174.8	2183.2	2204.4	2275.0	2306.4	2290.7	2188.7	1892.7	1434.3
25°	2528.1	2510.0	2447.8	2387.4	2347.5	2379.5	2422.4	2430.2	2364.4	2057.6	1558.8
27.5°	2863.9	2847.6	2777.5	2686.9	2572.8	2517.2	2549.2	2564.9	2537.1	2253.9	1691.0
30°	3178.5	3156.8	3080.1	2967.7	2835.5	2750.3	2714.1	2725.0	2741.3	2486.4	1846.2
32.5°	3451.5	3435.2	3343.4	3225.0	3097.6	3008.8	2924.3	2942.4	2982.2	2770.9	2044.9
35°	3682.8	3674.3	3577.1	3459.3	3324.7	3279.4	3206.9	3210.5	3250.4	3114.5	2287.1
37.5°	3883.9	3869.4	3781.2	3671.9	3565.0	3557.8	3537.9	3539.7	3560.2	3514.9	2565.5
40°	4010.7	3997.5	3934.6	3867.0	3790.9	3792.1	3895.4	3903.2	3879.7	3908.1	2859.6
42.5°	4058.4	4048.8	4015.0	4015.6	4007.7	4043.3	4237.2	4251.7	4167.2	4216.7	3110.9
45°	3975.7	3971.5	3973.9	4060.9	4155.1	4265.0	4516.8	4542.2	4422.6	4421.4	3307.2
47.5°	3708.8	3700.3	3771.0	3918.9	4137.0	4350.8	4685.9	4725.2	4601.4	4538.6	3430.4
50°	3185.8	3209.9	3321.6	3543.9	3875.5	4233.0	4684.1	4752.4	4608.0	4528.3	3409.8
52.5°	2307.6	2302.8	2547.4	2853.0	3256.4	3856.1	4435.3	4535.0	4446.8	4427.5	3363.9
55°	1255.6	1299.7	1464.5	1869.2	2372.9	3142.9	3867.0	4084.4	4186.5	4390.6	3446.7
57.5°	461.4	480.7	584.0	870.3	1256.2	1954.3	2953.8	3281.8	3597.0	4287.9	3432.8
60°	186.0	189.6	230.7	320.1	527.8	994.7	1771.9	2063.0	2360.2	3282.4	2634.4
62.5°	135.3	140.1	156.4	187.2	266.9	434.8	764.0	888.4	971.1	1625.8	1297.9
65°	109.3	112.9	126.2	140.1	176.3	233.7	246.4	237.3	236.1	420.3	297.7
67.5°	90.6	94.2	103.9	113.5	126.8	116.6	84.6	88.8	72.5	71.9	58.6
70°	66.4	70.7	80.3	90.6	76.1	31.4	48.9	72.5	55.0	45.9	44.7
72.5°	50.1	53.1	62.2	59.2	22.3	12.1	32.6	52.5	42.3	33.8	33.2
75°	37.4	39.3	31.4	9.7	2.4	3.0	12.1	21.7	23.6	19.3	19.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.8	2.4	3.0	3.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6
2.5°	688.5	663.1	626.9	596.7	573.7	551.4	534.5	517.6	517.0	508.5	506.7
5°	717.5	671.6	605.1	557.4	528.4	510.9	498.9	492.8	489.8	486.8	485.6
7.5°	759.1	693.3	601.5	550.8	526.6	515.2	506.7	503.1	501.3	498.9	498.2
10°	810.5	724.7	614.8	563.5	542.3	531.5	522.4	517.0	513.9	509.7	508.5
12.5°	872.1	763.4	635.9	584.6	562.3	547.8	535.7	527.8	523.6	518.2	517.0
15°	938.5	805.0	659.5	603.9	577.4	558.6	543.5	531.5	523.6	517.0	515.2
17.5°	1007.4	847.3	680.6	617.2	584.6	562.3	540.5	524.2	514.6	506.1	503.7
20°	1084.7	890.8	694.5	619.6	582.2	552.6	527.2	506.7	497.0	485.6	483.1
22.5°	1165.6	931.3	700.6	614.2	568.9	534.5	507.3	486.2	472.3	460.2	456.6
25°	1244.1	967.5	697.5	599.1	549.0	509.1	481.3	459.6	444.5	432.4	429.4
27.5°	1327.5	997.7	686.7	576.8	521.8	481.3	454.8	436.0	422.2	408.9	405.8
30°	1421.1	1025.5	669.2	549.6	489.8	453.0	432.4	419.7	404.6	390.7	386.5
32.5°	1534.0	1050.2	643.8	517.0	461.4	428.2	416.7	407.1	389.5	375.0	372.0
35°	1663.2	1070.8	611.8	483.1	433.6	412.5	410.1	397.4	374.4	357.5	353.9
37.5°	1813.0	1090.7	573.7	449.9	413.1	405.2	405.8	384.1	356.3	335.8	333.4
40°	1974.3	1110.6	531.5	420.9	394.4	401.0	395.6	364.8	319.5	299.6	297.1
42.5°	2142.2	1132.4	488.6	393.8	378.7	384.7	376.9	326.1	293.5	283.2	282.0
45°	2293.7	1158.3	442.1	366.6	363.0	361.2	347.9	295.3	281.4	274.2	273.6
47.5°	2403.1	1154.1	392.6	340.6	346.1	340.0	299.6	280.8	269.4	259.7	257.3
50°	2383.1	1080.4	341.2	311.6	324.3	318.9	269.4	263.9	253.7	243.4	239.8
52.5°	2332.4	980.2	296.5	280.8	300.8	288.1	248.8	243.4	234.3	221.0	216.8
55°	2359.6	886.0	261.5	256.1	276.6	238.6	225.9	217.4	207.8	193.3	191.4
57.5°	2272.0	722.9	210.2	213.8	244.6	203.5	198.1	184.8	168.5	158.8	157.6
60°	1572.6	388.3	131.7	135.9	177.0	170.9	177.6	165.5	145.5	136.5	134.7
62.5°	722.3	155.8	71.9	68.8	93.0	116.0	152.2	151.0	126.2	111.7	110.5
65°	175.1	71.3	51.3	48.3	52.5	69.5	99.0	119.0	102.1	85.2	83.3
67.5°	56.8	58.0	47.1	44.1	46.5	51.9	59.2	65.8	65.2	59.8	58.6
70°	45.3	52.5	43.5	39.9	39.9	41.7	39.9	32.0	27.8	30.2	31.4
72.5°	33.8	39.9	34.4	30.8	29.6	29.0	24.8	18.1	12.7	11.5	10.9
75°	19.9	22.3	21.1	18.1	16.9	15.1	12.1	7.9	4.2	3.0	1.8
77.5°	3.6	4.2	4.8	3.6	3.0	2.4	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)